



DoD Global Influenza and Other Respiratory Viral Pathogens Week 52 (26 Dec – 1 Jan) Weekly Surveillance Report



SUMMARY:

Number of new isolates for Week 52: **7 Influenza A; 1 Influenza B**

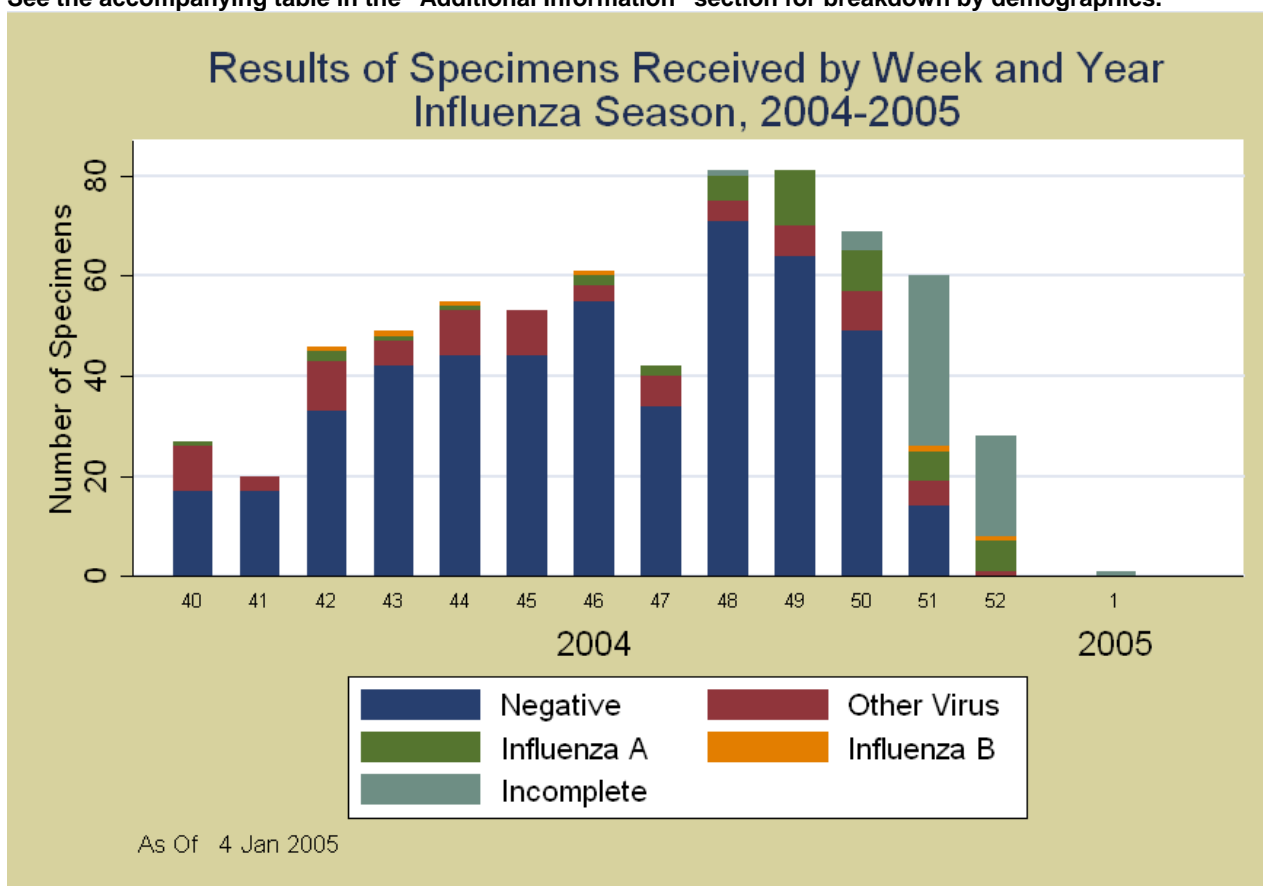
The new influenza A isolates consist of 3 from Ft. Drum NY; 1 from Hanscom AFB, MA; 1 from McGuire AFB, NJ; and 2 from Wilford Hall, TX. One influenza B isolate from Maxwell AFB, AL was also identified.

In addition, 2 influenza A isolates were newly identified during Week 52, but were collected prior to that week: 1 from Elmendorf AFB, AK and 1 from the USAF Academy, CO.

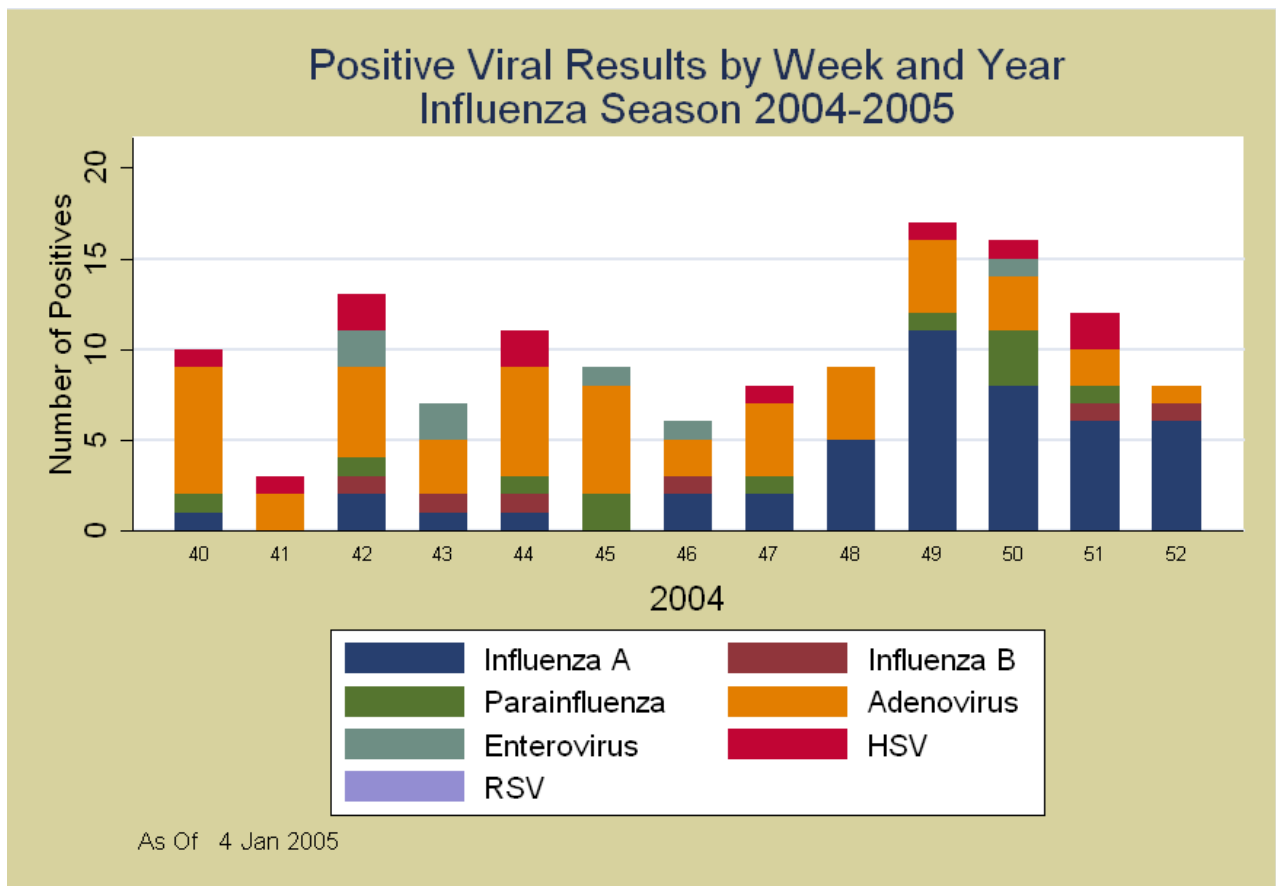
Since **3 October 2004**, the Epidemiological Surveillance Division (AFIOH/SDE) has processed 615 specimens as part of the influenza surveillance program. Of those specimens, 45 (7%) were positive for influenza A, and 6 (1%) were positive for influenza B.

In addition, 60 specimens are still being processed.

See the accompanying table in the “Additional Information” section for breakdown by demographics.



OVERALL DOD RESPIRATORY VIRAL SURVEILLANCE:

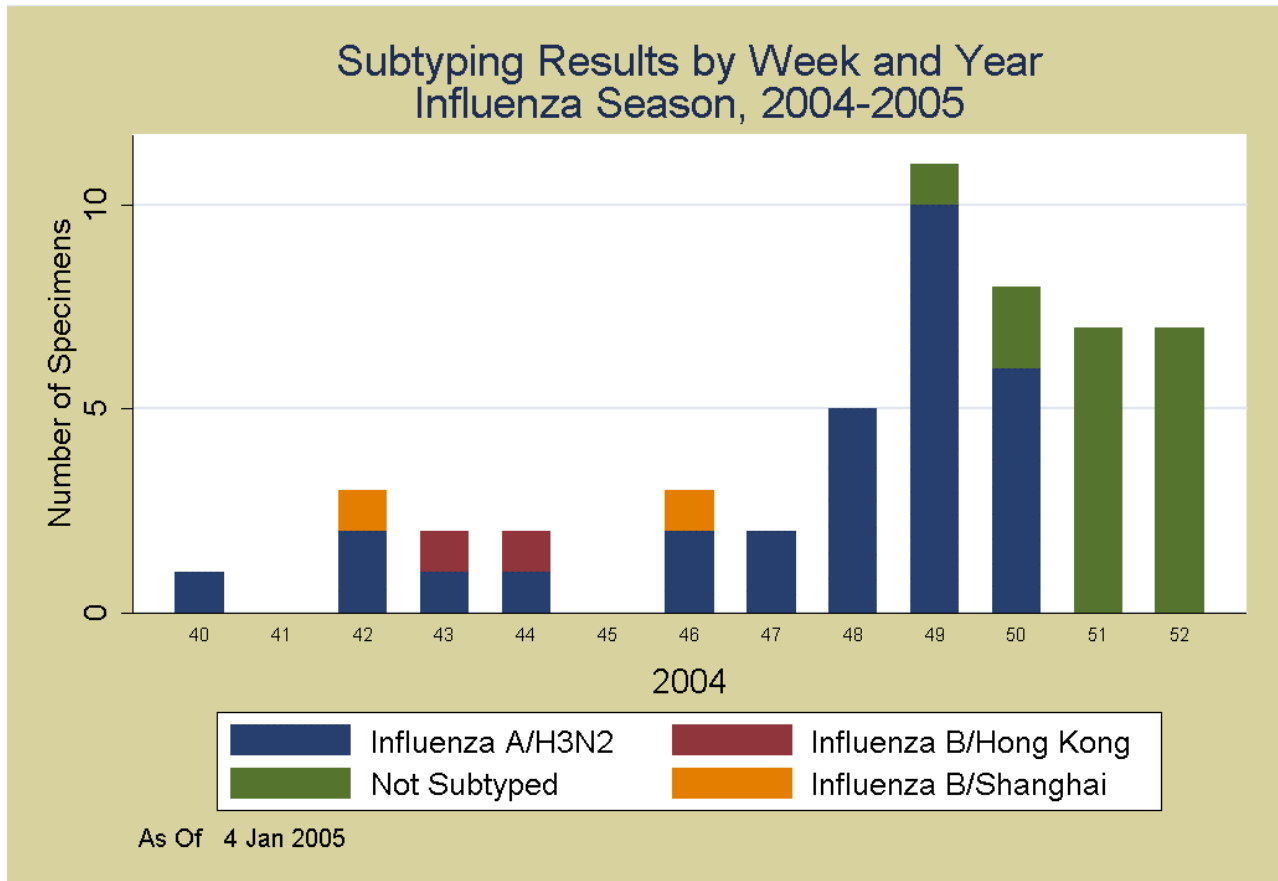


Note: Graphs do not include data from the NHRC, which conducts Febrile Respiratory Illness (FRI) surveillance among recruit populations. NHRC compiles this data into a separate report. For more information, visit the NHRC website at <http://www.nhrc.navy.mil/geis/>

SUBTYPING:

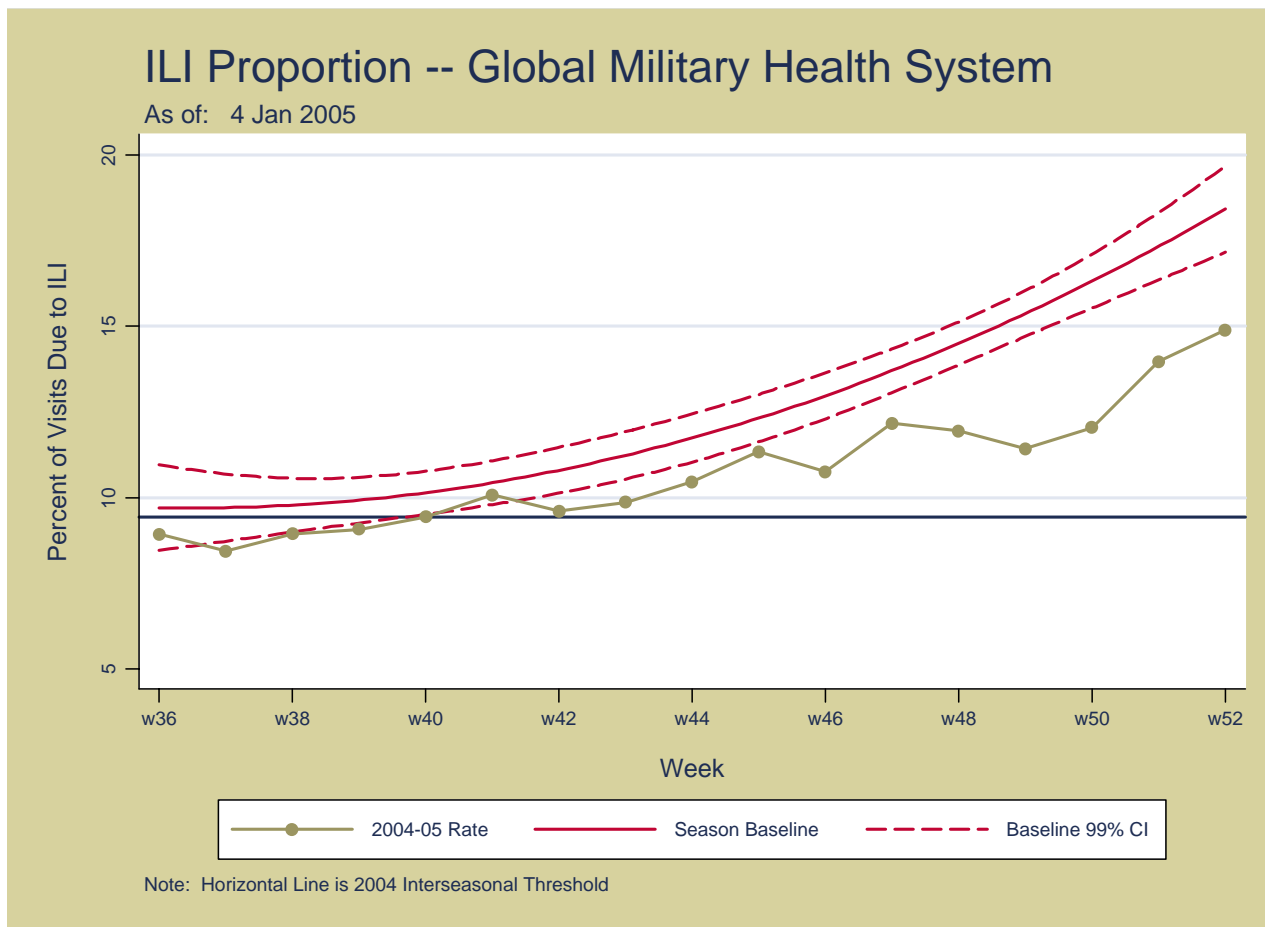
Since **3 October 2004**, we have subtyped 34 isolates using either polymerase chain reaction (PCR) or hemagglutination-inhibition (HI): 30 are Influenza A/H3N2, 2 are Influenza B/Hong Kong, and 2 are Influenza B/Shanghai. The following graph summarizes overall subtyping results. Subtyping results for individual bases can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/>



INFLUENZA-LIKE ILLNESS:

This graph plots the percentage of weekly outpatient visits at military installations that had an ICD-9 code correlating with Influenza-Like Illness as defined by ESSENCE. Visit and coding data were taken from ESSENCE. A seasonal baseline and 99% confidence intervals are included for comparison. The baseline was calculated from ESSENCE data for the previous 2 years. Note that the ESSENCE definition for Influenza-Like Illness differs from the CDC definition. See our website for a detailed explanation.



Graphs for individual bases and regions can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/ILIChartsform.cfm>

NATIONAL INFLUENZA ACTIVITY: CDC

<http://www.cdc.gov/ncidod/diseases/flu/weeklychoice.htm>

During week 51 (the latest report available), CDC reported increasing influenza activity in the United States. Laboratory surveillance identified 134 specimens (10.0%) positive for influenza. Of these, 1 was influenza A (H1N1), 27 were influenza A (H3N2), 85 were influenza A (not subtyped), and 21 were influenza B. Delaware, New York State and New York City reported widespread influenza activity. Connecticut, Florida, Kentucky, Maryland, Massachusetts, and Minnesota reported regional activity. Forty-six states, the District of Columbia, and Puerto Rico reported local or sporadic influenza activity.

INTERNATIONAL INFLUENZA ACTIVITY: WHO

<http://www.who.int/GlobalAtlas/DataQuery/home.asp>

Week in review: **Week 52**

South America: Argentina reported sporadic activity.

Asia: China reported sporadic activity, and the Russian Federation reported a regional outbreak.

Europe: France, Italy, Latvia, Norway, Portugal, Slovenia, Switzerland, Turkey, and the Ukraine reported sporadic activity. Iceland and Spain reported local outbreaks.

North America: No activity reported.

Africa: Tunisia reported a regional outbreak.

ADDITIONAL INFORMATION:

- **Avian Influenza Update:** The WHO has received a report of a laboratory-confirmed case of H5N1 in Vietnam. The patient, a 16-year-old girl, has been hospitalized since December 26. The source of infection is still being investigated.

Please direct any questions or comments to: influenza@brooks.af.mil

DEMOGRAPHIC SUMMARY:

Table 1. Influenza Isolates by Sentinel Site

# POSITIVES SUBMITTED BY SENTINEL SITES	New Isolates*		Cumulative (since 3 October 2004)		
	A	B	A	B	Specimens Submitted
Al Udeid AB, Qatar	0	0	0	0	1
Andersen AFB, Guam	0	0	3	0	7
Andrews AFB, MD	0	0	0	0	2
Aviano AB, Italy	0	0	0	0	4
Bremerton NS, WA	0	0	1	0	5
CGS Ketchikan, AK	0	0	0	0	0
Elmendorf AFB, AK	1	0	12	1	29
McGuire AFB, NJ	1	0	4	0	13
Ganci AB, Kyrg	0	0	0	0	0
Incirlik AB, Turkey	0	0	0	0	10
Kadena AB, Japan	0	0	0	0	1
Kunsan AB, Korea	0	0	0	0	3
RAF Lakenheath, UK	0	0	1	0	48
Landstuhl RMC, Germany	0	0	0	0	0
Maxwell AFB, AL	0	1	0	1	19
Misawa AB, Japan	0	0	0	0	15
NAB Little Creek, VA	0	0	0	0	6
NS Pearl Harbor/Hickam, HI	0	0	0	0	0
NH Yokosuka, Japan	0	0	0	0	2
NMC San Diego, CA	0	0	0	0	5
Osan AB, Korea	0	0	0	0	4
Ramstein AB, Germany	0	0	0	0	12
Scott AFB, IL	0	0	0	0	72
Sheppard AFB, TX	0	0	0	0	124
Travis AFB, CA	0	0	1	0	11
Tripler AMC, HI	0	0	1	3	4
US Air Force Academy, CO	1	0	1	1	7
Yokota AB, Japan	0	0	0	0	7
TOTALS for SENTINEL SITES	3	1	24	6	411

Table 2. Influenza Isolates by Overseas Labs

# POSITIVES SUBMITTED BY OVERSEAS LABS	New Isolates*		Cumulative (since 3 October 2004)		
	A	B	A	B	Specimens Submitted
AFRIMS, Thailand	0	0	0	0	0
AFRIMS, Nepal	0	0	0	0	0
NMRC-D, Peru	0	0	0	0	0
NMRC-D, Nicaragua	0	0	0	0	0
TOTALS for OVERSEAS LABS	0	0	0	0	0

Comments: * Newly identified; may include specimens collected prior to current week

Table 3. Respiratory specimens received

Location	Total # of Specimens Received	
	Current Week	Cumulative*
ALL SITES	64	685
NORTH AMERICA	48	499
PACOM	11	96
EUCOM	5	79
CENTCOM	0	1
SOUTH AMERICA	0	10

Comments: *Received since 3 October 2004.

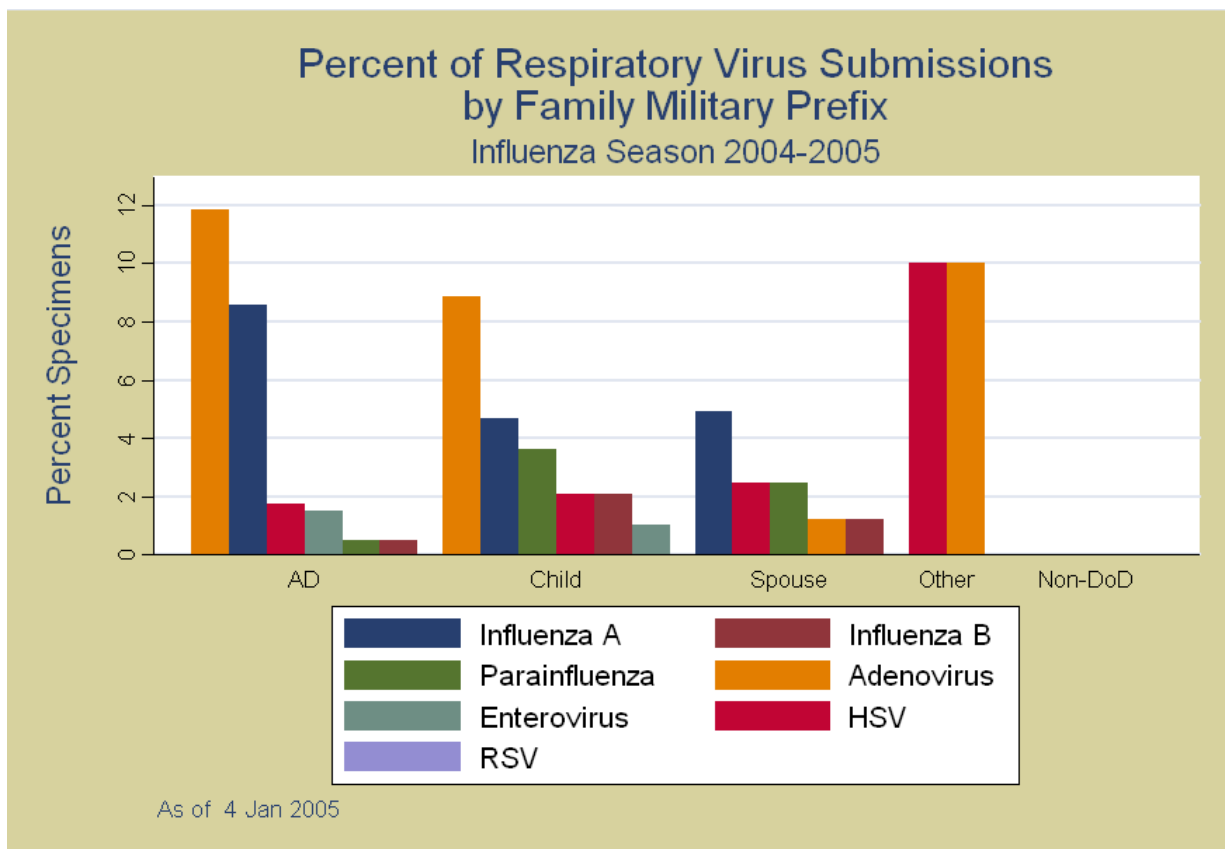
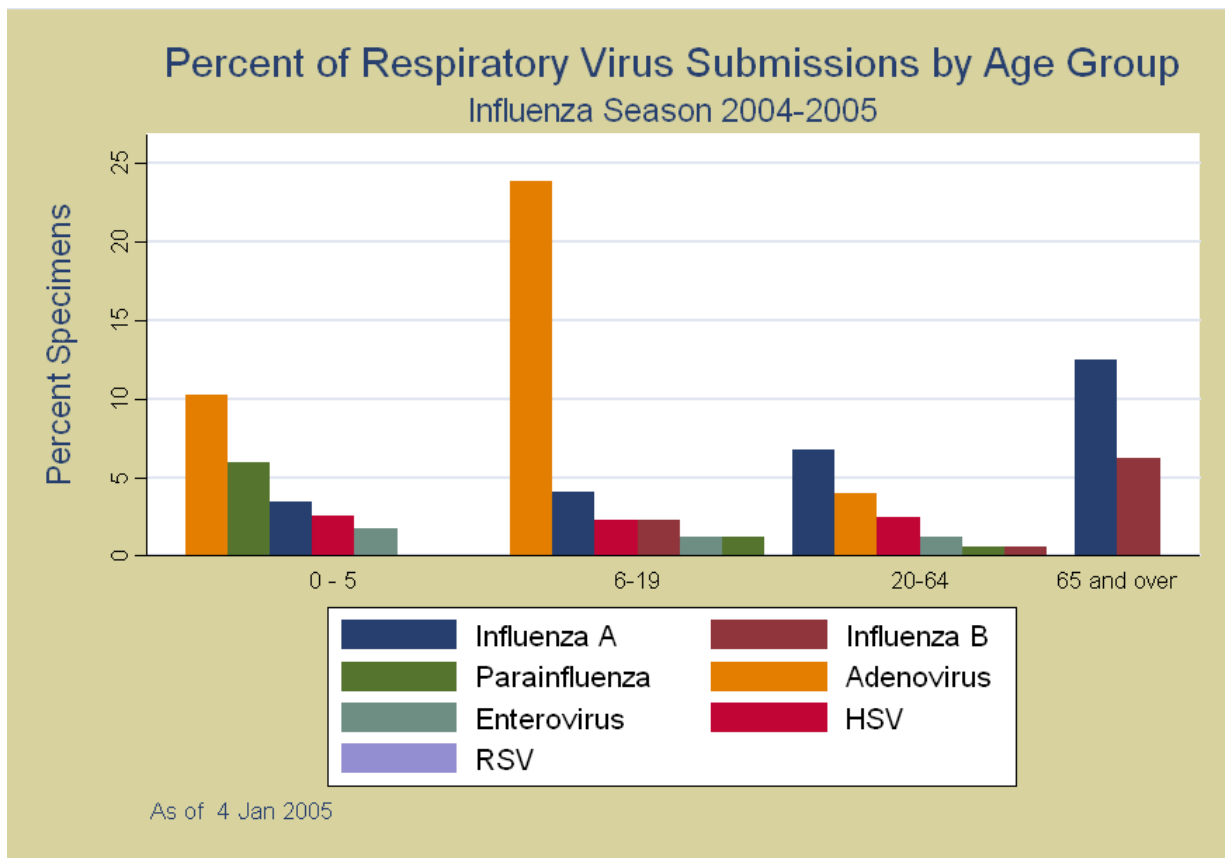
Table 4. Summary of Results of Recently Processed Specimens

Location	Results of Specimens Processed during current week*				
	Negative	Influenza A	Influenza B	Adenovirus	Other
ALL SITES	39	9	1	5	4**
NORTH AMERICA	27	7	1	5	3
PACOM	6	1	0	0	1
EUCOM	6	0	0	0	0
CENTCOM	0	0	0	0	0
SOUTH AMERICA	0	0	0	0	0

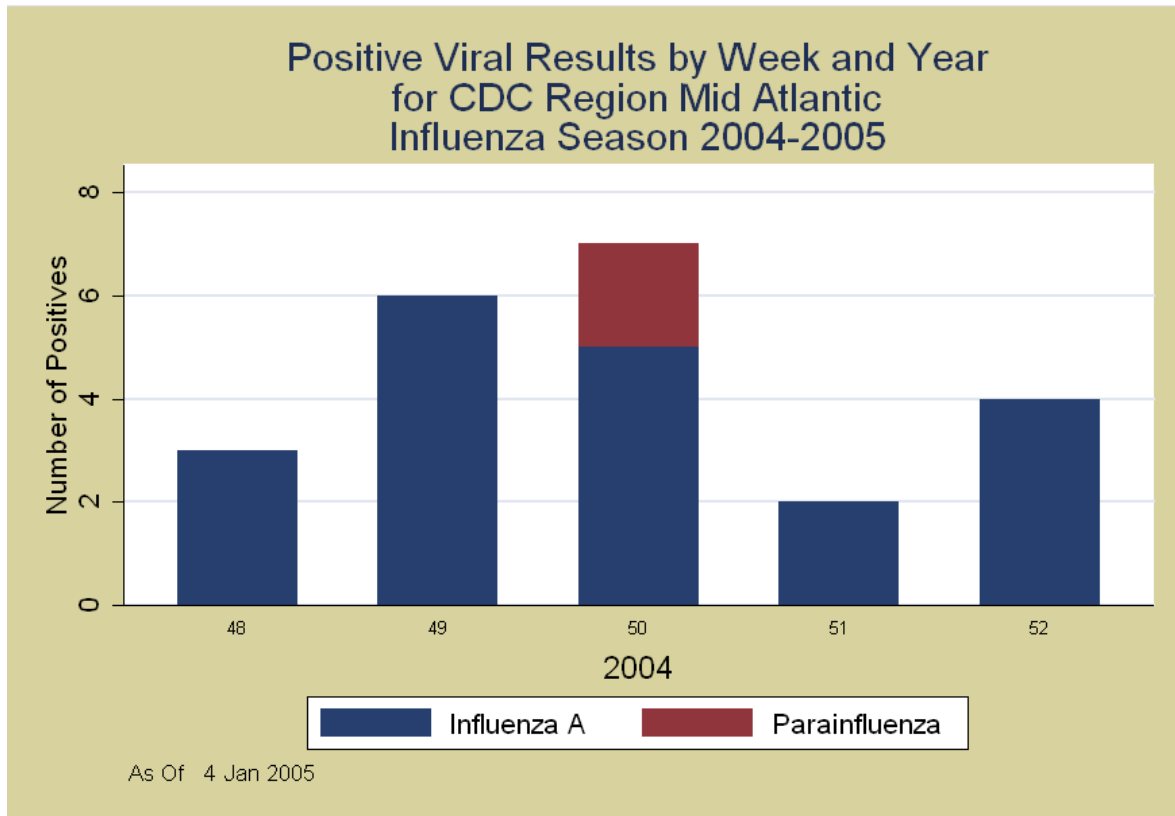
Comments: * Specimens were **received** in month of December. Influenza A and B totals include recent subtyping results.

** 2 Parainfluenza, 2 HSV

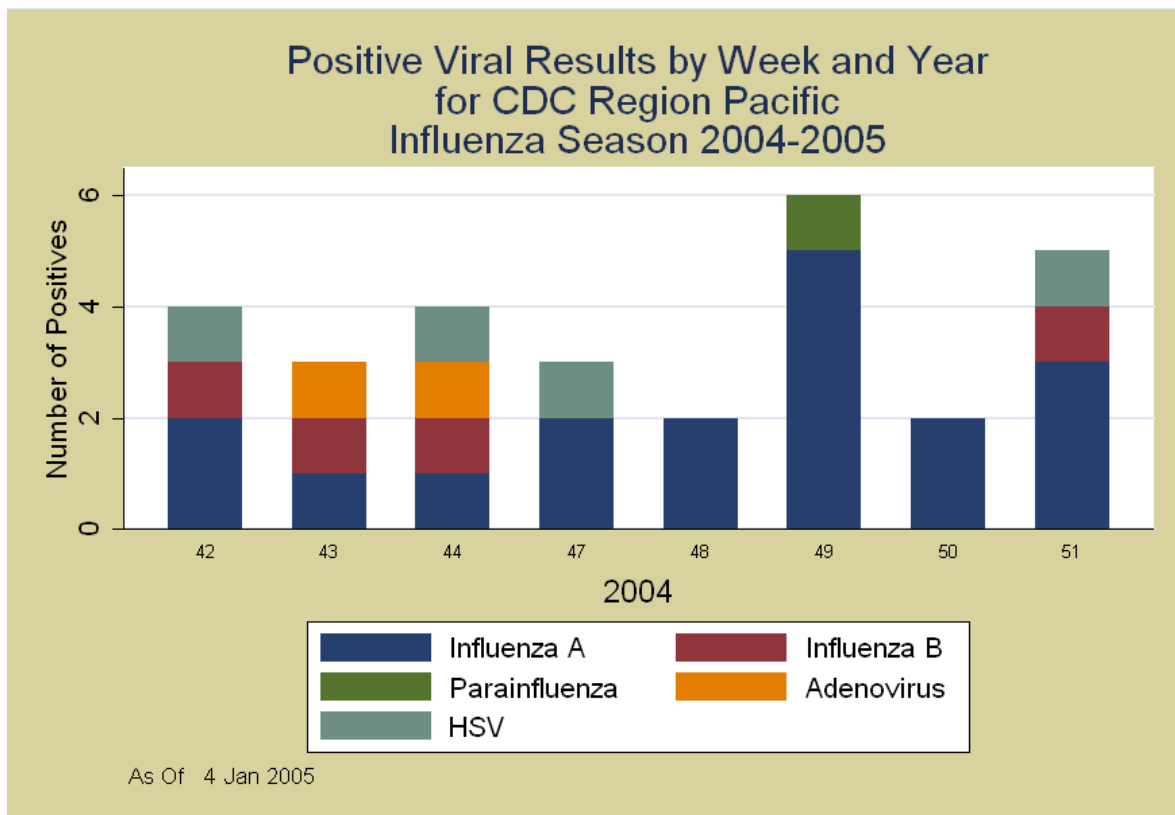
DEMOGRAPHIC GRAPHS



CDC REGIONAL GRAPHS



Influenza specimens from Ft Drum, NY and McGuire AFB, NJ



Influenza specimens from Eielson AFB, Elmendorf AFB, and Ft Wainwright in AK; Bremerton NAS, WA; Travis AFB, CA; Tripler AMC, HI